

From owner-qrp-1@netcom.com Sat Mar 25 14:17:03 1995
Date: Fri, 24 Mar 1995 16:46:25 -0600
From: Wayne_Estes <Wayne_Estes@csg.mot.com>
Message-Id: <9503241646.ZM3613@SALCIUS2>
Subject: 20m. Bicycle mobile in Hawaii

Hello QRP fans,

I just returned on Monday from a 15 day bike tour in Hawaii. I spent 5 days on Molokai and 10 days on Maui. Bicycling, hiking, and visiting beaches and waterfalls was my main activity, but I did get a little 20 meter bicycle-mobile hamming in as well.

Here's a quick summary of the equipment which weighs a total of 7 pounds:

MFJ 9420 SSB Travel Radio (12W output) in my handlebar bag.
8 ft. Hamstick mobile vertical on a homemade mount on the rack.
14.4V, 3 Amp-hr Nickel Cadmium battery
Icom HS-10 headset
PTT switch on the handlebar
16 ft. counterpoise wire to improve signal when stationary
Wall transformer that charges the battery in 5 hours.

I made a total of 97 contacts on 20 meter SSB. Most of the contacts were made while stationary, but I did make about 10 contacts while riding the bike.

Location	# of Contacts
-----	-----
California	37
New Zealand	10
Washington	7
Canada	6
Australia	6
Japan	5
Texas	4
South Cook Islands	3
Hawaii (ground wave)	3
Oregon	3
Florida	2
Colorado	2
Christmas Island	1
Kiribati	1
French Polynesia	1
Argentina	1
Yacht NW of Christmas Island	1
Nevada	1
Illinois	1

Wisconsin 1
Arizona 1

The only place I expected to contact but didn't was Alaska. I heard several Alaska stations but never made 2-way contact.

I expected to get good signals from mountain tops overlooking the ocean. But it turned out that my signals were pretty weak when I was on mountain tops.

Signals were MUCH stronger when I was near the ocean. Twice my signal went from 5-2 to 5-7 when I rode from a high overlook down to the ocean. I suppose if I used a bunch of radial wires I could have had much better signals on the mountain tops.

I was lucky that my setup worked reliably for the two week bike tour.

Everything got dropped, yanked, rained on, etc., and there were lots of opportunities to get broken wires in the headset, PTT switch, battery cable, charger, and coax. My antenna got bent once but it was easy to straighten.

The MFJ radio was dropped, scratched, and dented but it kept on working!

The battery lasted a long time on a charge. Once I used the radio for 4 days without charging the battery. The MFJ9420 is great for battery operation.

Receive current drain is only 80 mA with the meter light bulb disconnected.

It was a lot of fun, and I want to do it again next year in some other DX location.

73,

Wayne Estes WD5FFH

wayne@csg.mot.com

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From owner-qrp-l@netcom.com Sat Mar 25 14:07:18 1995

Date: Fri, 24 Mar 95 12:52:31 PST

From: dh@deneb.csustan.edu (Doug Hendricks)

Message-Id: <9503242052.AA07822@deneb.csustan.edu>

Subject: ARCI Reprints

The 10 sets of ARCI Reprints are gone. The following are the 10 on the list.

Stephen Martin
Gabe Sellers
Dave Feldman
Ying Hum
Bill Barnes
Charlie Lofgren
Eric Rehm
Bruce Florip
Bill Northup
Bob Marlan

Jeff Anderson is on standby at #11 in case someone doesn't get their check to me in 10 days.

Thanks and there will not be any more from me. Please don't ask, as they are a "pain" to do.

72, Doug

KI6DS

From owner-qrp-l@netcom.com Sat Mar 25 12:09:22 1995

From: BCd1r@aol.com

Date: Sat, 25 Mar 1995 10:51:02 -0500

Message-Id: <950325105100_60782088@aol.com>

Subject: Books

In the back of CQ, March 95, in the ads is a listing for a place called Tiare publications. They have 2 QRP books, Basic QRP, and Advanced QRP. Anybody have them? Are they any good?

Along the same lines you guys ought to put together a book, magazine, and paper "must-have" list for us newbies.

Dan Reynolds, bcd1r@aol.com, KB9JLO

From owner-qrp-l@netcom.com Sat Mar 25 13:52:14 1995

Message-Id: <199503251421.JAA21296@jfwhome.funhouse.com>

Subject: Re: CHU receiver?

Date: Sat, 25 Mar 1995 09:21:47 -0500

From: "John F. Woods" <jfw@jfwhome.funhouse.com>

For anyone else who is interested, Ying Hum (VA3YH) told me the following:

> check out ftp://hydra.carleton.ca/pub/hamradio , there is a file
> call churcvt.tar.z Maybe that's what you are look for.

It was EXACTLY what I was looking for (thanks again!). The schematics are in postscript format, though they come out a bit funny on my printer since I lack A4-size paper (fortunately only one resistor value is cut

off, and it's pretty obvious).

The design is modular, so you can easily leave out the RF part if you've already got an HF receiver (but who around here would have one of those? ;-). I think it should be pretty easy to adapt to WWV, depending on what their digital time-signal is like (does anyone have that info handy? I can't find it in the most recent Handbook!).

From owner-qrp-l@netcom.com Sat Mar 25 20:08:58 1995
Date: Sat, 25 Mar 1995 14:37:48 -0800 (PST)
From: Steven Wilson <randyw@crl.com>
Subject: Re: CHU receiver?
Message-Id: <Pine.SUN.3.91.950325143540.27194A-100000@crl4.crl.com>

Now that I have the file how do I de TAR.Z it on a ms-dos machine ?

I know just like a little kid always wanting to know more. :-)

Do I have to do it in two steps from .Z to .TAR then unzip it ?

Thanks any help appreciated. de stan AK0B

From owner-qrp-l@netcom.com Sat Mar 25 15:22:11 1995
From: ab4el@cybernetics.net (Stephen Modena)
Message-Id: <9503250706.AA03534@cybernetics.net>
Subject: digest availability
Date: Sat, 25 Mar 1995 02:06:35 -0500 (EST)

>
> A digested form of QRP-L (daily?) would be nice. One with a table of
> contents at the top would be even nicer. I read every post (well, at least
> the first paragraph :-)) but I can see why some might be overwhelmed. I
> believe QRP-L is served by majordomo...it should be possible to setup a
> digested list, no?
>
> /jim
>

There is a daily digest available...without a table of contents.

ftp ftp.cybernetics.net /pub/users/ab4el/DAILY.QRP

ftp sunsite.unc.edu /pub/academic/agriculture/agronomy/DAILY.QRP

<http://www.thePorch.com/~shimshon>

And for those with email serve only (can't ftp or access the WEB),

make a private request for subscription to MODENA@SunSITE.unc.edu .

--

73/Steve/AB4EL ab4el@Cybernetics.NET in Raleigh, NC 35.81245N, 78.65849W

From owner-qrp-l@netcom.com Sat Mar 25 19:31:12 1995
Date: Sat, 25 Mar 1995 15:12:29 -0800 (PST)
From: Steven Wilson <randyw@crl.com>
Subject: ghostscript ?
Message-Id: <Pine.SUN.3.91.950325151009.27068A@crl3.crl.com>

Someone recently said there was a program called ghostscript ?

That could be used to print out .ps files like the nn1g20.ps.

Can anyone tell me where to find it or how to use archie to find it ?

Thanks de stan AK0B

From owner-qrp-l@netcom.com Sat Mar 25 13:26:48 1995
From: N9DD@aol.com
Date: Sat, 25 Mar 1995 09:20:24 -0500
Message-Id: <950325092022_60732012@aol.com>
Subject: Re: installing speakers

I too, have been upset at the results of my efforts to drill a speaker grill pattern in cabinets for my receiver projects.

I did get one suggestion that has helped alot and really improved the results: Tape a piece of perforated board to the cabinet over the intended area for your speaker grill (the kind Radio Shack sells for breadboarding circuits works fine). Use board with small hole spacing for best results. Draw the pattern you want for your speaker on the perf board. I usually just put the loose speaker in position and draw around it. I then use my Dremel Power-Mite and use the perf board as a drilling guide. After I've drilled all the needed holes with a small drill, I go back and use a larger one on some of the holes to make a nice pattern. Pull the perf board off and your grill pattern should look pretty good!

I used this technique on my Norcal 40A and am very pleased with the results.

73,

Tom Frisz N9DD
South Bend, IN

From owner-qrp-l@netcom.com Sun Mar 26 02:18:39 1995
From: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org (Mike Czuhajewski)
Subject: Met Ed Hare/KA1CV in Timonium, MD
Date: Sat, 25 Mar 95 23:13:03 EST5EDT
Message-Id: <1995Mar25.231303.7163@wb3ffv.ampr.org>

Bruce Muscolino, W6TOY, found out that QRP'er Ed Hare, KA1CV of the ARRL lab staff, was coming to the Timonium, MD hamfest to speak officially on some non-QRP topic. Since he would be free Friday night before the two day hamfest/ARRL convention, Bruce and I drove up to meet him, and had a most delightful visit.

Ed operated 20 meter mobile CW QRP all the way down from CT, using his HW-8. This is the same HW-8 that he removed the final from several years ago to do some real QRP, at ten milliwatts output, as documented in QST a few years back, and also on page 2 of QRP Classics. (I almost didn't recognize him in person since the hair and beard are much shorter now :-))

He told us that he put the final back in so he was running full power on the trip down--a whole watt! We made him lift the cover to let us verify that the final was really back. (Incidentally, many people remove radios or stereos from their parked vehicles and carry them for safety, but this is the first time I saw someone walking away from a truck with an HW-8 tucked under his arm!)

Ed maintained an air of mystery until after supper; he told us he had an interesting piece of QRP history that he would show us later but wouldn't divulge it until the proper moment. To get back at him for not telling right away, I held up the little pouch I was carrying, about the size of a pouch for a low cost 35MM camera, and told him it contained a key, three transmitters, a transceiver and remote VFO.

After the dishes were cleared, he pulled something out of his pocket and said he bought it at a local hamfest for a dollar. I recognized it instantly--it was THE Tuna-Tin 2, from the May 1976 issue of QST, by W1FB. He started telling us that everyone at the ARRL lab was amazed at such a good copy of the rig in the article, but I knew instantly that it was no copy! He said that after they examined it for a while and compared it carefully with the pictures in the article, it dawned on them that it was the real thing. (The clincher was the fact that the uneven ends of the Dymo label tapes were exactly the same as the pictures.)

He said it had been at ARRL but disappeared for some reason over the years; perhaps someone needed a part--the crystal socket was missing--and didn't realize what it was and threw it out. Who knows...the important thing is that an important part of QRP history

has been saved from oblivion. (And no, it didn't smell at all fishy.)

My turn next--I unzipped the pouch to show all my little QRP rigs and he was suitably impressed--the Tiny Weekender (a smaller version of the Ugly Weekender), my QRP Key (miniature key on top of a tiny rig), my DB-25 transmitter-in-a-pill-bottle, and WG3Rs DB-25 rig. The latter is a full blown 40M CW transceiver, with built-in VFO, in the same 3/4 cubic inch bottle that all DB-25 rigs were required to use. (His was the more impressive of the two transceivers built in the bottles, since his uses a pair of TUF-1 mixers from Mini Circuits in a phasing direct conversion receiver--all of this in 3/4 cubic inch!)

Although no one has done any soldering on one yet, I showed him the package for Phase II of the DB-25 challenge--a 0.49 cubic inch box that holds 5 cartridge fuses. I hold the distinction of being the first of the 3 people accepting the new challenge to do any work on it--I have a right angle female SMA connector mounted on the box. (Unlike Phase I, surface mount devices ARE allowed.)

I didn't exactly tell the whole truth about the "remote VFO". Although the WG3R DB-25 transceiver contains an internal VFO, as required by the rules of the challenge, there was a second bottle with an extra VFO--it was the prototype, and for some reason WG3R started again from scratch. (The rig doesn't actually have any provisions for using a remote VFO.)

73 and Queue Our Pea DE WA8MCQ

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Mike Czuhajewski, user of the UniBoard System @ wb3ffv.ampr.org
E-Mail: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org
The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA
Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From owner-qrp-1@netcom.com Sat Mar 25 20:54:41 1995
Message-Id: <199503252323.TAA22803@public.compuser.com>
From: "Robert J Gobrick" <rgobrick@public.compuser.com>
Date: Sat, 25 Mar 1995 23:13:31 +0000
Subject: NE-602 Reading Material

ARP-L gang,

As a follow-up to a previous posting and to supplement the great job Paul (Mr. On-Line Datasheet King) NA5N did on the posting of the NE-602 datasheet, I just wanted to remind everyone that Popular Electronics May 1995 (at you newstand) has part 2 of 3 design articles on the NE-602 chip. The author, Joe Carr K4IPV, covers the

NE-602 Input and Output circuits this month. Good reading!

Talking about good reading - if there are any internet techno weenies like me out there in qrp-l land I just came across an easy-reading magazine guide while killing time at the Halifax airport magazine shop. PCNovice magazine just published a special magazine style Guide to Going Online for \$4.95 that makes for some lite reading on all those things you wanted to know about the Internet, On-Line Services, World Wide Web, Modems etc. It is in a magazine format with pictures, easy words, etc ;-). Good for the casual reading on an airplane or your favourite 'sitting' room.

Good reading - 72 Bob V01DRB/WA6ERB

Bob Gobrick - V01DRB/WA6ERB/VE2DRB - Newfoundland, Canada
QRPer Galore - ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP

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From owner-qrp-l@netcom.com Sat Mar 25 16:05:15 1995
Message-Id: <199503242241.AA22482@zia.aoc.nrao.edu>
Date: Fri, 24 Mar 1995 15:41:08 -0700
From: Paul Harden <pharden@aoc.nrao.edu>
Subject: Re: New Mixer

>From: Clark Fishman (FSAC) <cfishman@fsac3.pica.army.mil>
>Subject: New Mixer
>
>I just got a data sheet from Analog Devices on the AD831 Low Distortion
>Mixer....this puppy is a modified Gilbert cell mixer with built in
>amplifiers on all ports...you gets +24 DBM 3rd order intercept with only
>-10 DBM local oscillator drive..... The amplifiers are direct coupled
>(snip)
>without all those Toko coils....Bad news (sorta) These mixer draw
>about 100 ma from the power...I can live with that...now to get
>some samples.....
>
>WA2UNN Clark Fishman cfishman@pica.army.mil

I have just received some samples and a development board from Analog Devices for a product they hope to start fabricating this summer. It is the AD607 and AD608. It is a super beefed up NE602 in the front end,

followed by 100dB of IF amps, with breakouts for adding external ceramic or crystal filters (IF drives a 300 ohm load!), with both an in-phase and quadrature detector driven from an on-board PLL, etc. You can either use the internal 80-dB range AGC, derived from full-wave detectors off each IF amp, or apply your own external AGC. If using the internal AGC, the AGC "pin" becomes an RSSI/S-meter drive. It draws 7.8mA with full IF gain. It also has a control pin to put the chip into a 300uA standby mode, which switches OFF in 1uS and ON in 500nS --- thus I'm hoping I can utilize this feature as a direct T-R switch for the receiver.

I've started breadboarding/modifying the development board for a 40M QRP rig. (The development board is intended for a 450MHz receiver!) Not very far along yet (got carried away designing a VFO for it to select either LSB or USB ... something I always wanted to do on a QRP rig). But gonna build a prototype using both chips to see which one works the best. At this time, it appears one would be suitable for a very low parts count QRP rig, while the other could be the answer to a very stable QRP receiver approaching the performance of commercial rigs (with a proportional number of additional components!). Expected introduction cost of the chip is \$15-20 (the marketing dept. really had no idea) with hopes it will be a \$5-8 chip once into their third or fourth production run. She claimed they had orders already to backlog them 6 months once they start fabrication. Obviously they've had ONE small production run, or else I wouldn't have a couple of them and a development board in front of me.

Anyway, I can keep the list informed of the development and progress if there is any interest. And perhaps while on the subject, anybody got any neat ideas on what they would like to see in a new generation QRP rig? There's some amazing gadgetry out there for \$1 or 2. Some of 'em sitting here on my work bench. (Some of those salesmen can sure be generous!). I'm also playing around with a new directional coupler hybrid IC (about \$2) that can be used to isolate XMT power from the RCVR with its 90dB of isolation ... i.e., automatic full-QSK with "no moving parts." (This is fun, considering my job is to build DIGITAL circuits).

Have a good weekend on HF ...

Paul NA5N

-----NATIONAL RADIO ASTRONOMY OBSERVATORY ----- Socorro, New Mexico -----
| VLA - Very Large Array Observatory - Worlds largest radio telescope |
| VLBA - Very Long Baseline Array - even larger |
----- (pharden@zia.aoc.nrao.edu) --- (73 de NA5N) -----

From owner-qrp-l@netcom.com Sat Mar 25 13:55:59 1995
Message-Id: <n1416064951.8272@msmailgw1.arlut.utexas.edu>
Date: 24 Mar 1995 15:04:21 -0600

From: "rohre" <rohre@msmailgw1.arlut.utexas.edu>
Subject: slug tuned coils and a distributor

At one time, J. W. Miller Co. made all kinds of coils, chokes, and slug tuned coils I think. Anyway, they have a distributor who is Digikey Corp. who have same day shipping by 5 PM central U.S. time. Their (800) no. is 1-800-344-4539, and for those outside the U.S. where 800 does not help, the FAX no. is 218-681-3380.

The Miller factory probably does not sell small quantities, but their nos. for reference on technical issues: (310) 515-1720. FAX (310) 515-1962. They are at 306 East Alondra Blvd., P O Box 2859, Gardena, CA. 90247. I just gave them a call, and you have to get catalogs from their area representatives. For the Central U.S. this is Component Partners in Dallas area: (214) 644-1288. For Export sales: In New York: Roburn Agencies telephone (914) 968-1016, Mr. Sanford Awner vice Pres., FAX (914) 968-2188. He told me they handle all the world for Miller. I usually request a "line sheet" of the other companies they represent for future parts needs when I deal with someone who is the sales rep. for multiple companies.

Now Justin, you won't need all the international info I included, but this could be of help to the list to whom I will post as well.

Does anyone know whatever happened to CTC or Cambion, who also made ceramic coil forms and slug tuned coils?

Hope you get a source to post on those feedthrus. They are rare these days!
-73, Stuart K5KVH